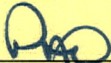


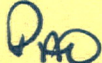
March 1, 2000

IN RE: DOCKET NO. 1999-469-C – BELLSOUTH – GUIDELINES FOR ALTER.
REG.

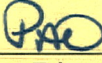
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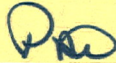
Chief, McDaniel



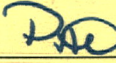
Legal Dept. (2)



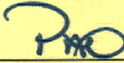
Exec. Director



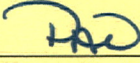
Manager, Utilities Dept.



Accounting (1)



Research (1)



Commissioners (7)

pao



PHILIP S. PORTER
ADMINISTRATOR
AND
CONSUMER ADVOCATE

THE STATE OF SOUTH CAROLINA

DEPARTMENT OF CONSUMER AFFAIRS

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February 29, 2000

Honorable Gary E. Walsh
South Carolina Public Service Commission
P.O. Drawer 11649
Columbia, South Carolina 29211

Re: BellSouth Telecommunications, Inc.
Docket No. 1999-469-C

Dear Mr. Walsh:

Enclosed please find twenty-five (25) copies of the **Testimony of Allen G. Buckalew** on behalf of the Consumer Advocate in the above referenced case. Copies have been served on all parties listed on the attached Certificate of Service.

Sincerely,

Elliott F. Elam, Jr.

Elliott F. Elam, Jr.
Staff Attorney

Enclosure(s)
cc: parties of record

COMMISSIONERS
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COWPENS



CERTIFICATE OF SERVICE

This is to certify that I, Elliott F. Elam, Jr., on behalf of Philip S. Porter, Consumer Advocate, have served this day the foregoing **Testimony Of Allen G. Buckalew** on behalf of the Consumer Advocate upon the persons named below, at the addresses set forth, by deposit in the United States mail, postage prepaid.

F. David Butler, Esquire
S.C. Public Service Commission
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Columbia, SC 29211

Frank R. Ellerbe, III, Esquire
Robinson, McFadden & Moore, P.C.
P.O. Box 944
Columbia, SC 29202

Robert A. Culpepper, Esquire
BellSouth Telecommunications, Inc.
P.O. Box 752
Columbia, SC 29202

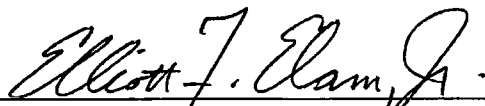
John F. Beach, Esquire
Beach Law Firm, PA
P.O. Box 11547
Columbia, SC 29211-1547

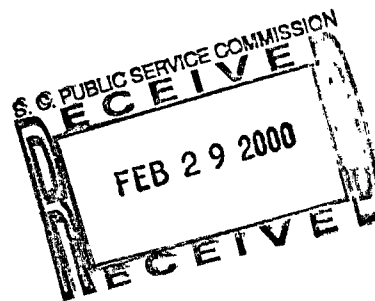
Francis P. Mood, Esquire
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John J. Pringle, Jr., Esquire
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Darra W. Cothran, Esquire
Woodward, Cothran & Herndon
P.O. Box 12399
Columbia, SC 29211

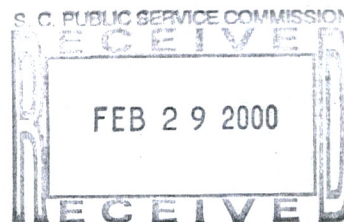
Terrance A. Spann, Esquire
Department of the Army JALS-RL
901 N. Stuart Street Suite 700
Arlington, VA 22203-1837


February 29, 2000
Columbia, South Carolina



POSTED
DWL-29-00

BEFORE THE
PUBLIC SERVICE COMMISSION OF
SOUTH CAROLINA



IN RE: Proceeding to Review BellSouth
Telecommunications, Inc.'s Guidelines for
Alternate Form of Regulation)

) Docket No. 1999-469-C
)

TESTIMONY OF
ALLEN G. BUCKALEW
ON BEHALF OF
THE SOUTH CAROLINA
DEPARTMENT OF CONSUMER AFFAIRS



FEBRUARY, 2000

RETURN DATE: *OK DBW*
SERVICE: *OK DBW*

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I. QUALIFICATIONS AND INTRODUCTION

Q. PLEASE STATE YOUR NAME, OCCUPATION, AND BUSINESS ADDRESS.

A. My name is Allen G. Buckalew. I am an Economist specializing in the telecommunications industry at J.W. Wilson & Associates, Inc. Our offices are at 2715 "M" Street, N.W., 4th Floor, Washington, D.C. 20007.

Q. PLEASE OUTLINE YOUR EDUCATIONAL BACKGROUND.

A. I hold an A.A. and a B.S. degree with high honors, both from the University of Florida, and an M.S. degree from George Washington University. My major areas of concentration were economics and telecommunications.

Q. HOW HAVE YOU BEEN EMPLOYED IN THE PAST?

A. Before I entered the University of Florida, I worked for four years in Naval Telecommunications. After graduating from the University of Florida, I worked for four years at the Federal Communications Commission ("FCC") as an Industry Economist in the Common Carrier Bureau and was employed extensively in areas involving telecommunications, economics, accounting, engineering, and policy matters. For example, one of my major projects was "The Economic Implications and Interrelationships Arising

1 from Policies and Practices Relating to Customer Interconnection,
2 Jurisdictional Separations and Rate Structures,” (Docket 20003). This case
3 opened the terminal equipment (e.g., telephone sets, and private branch
4 exchanges (PBXs)) market in the United States to competition. I also
5 provided economic analysis in several rate cases. For example,
6 “Communications Satellite Corporation, Investigation into Charges,
7 Practices, Classifications, Rates and Regulations,” (Docket 16070). My
8 major responsibility was to serve as economic advisor and analyst for the
9 Common Carrier Bureau.

10 After leaving the FCC, I was appointed Associate Director for
11 Telecommunications Research of the National Regulatory Research
12 Institute at Ohio State University. My responsibilities at NRRI focused on
13 telecommunications policy as seen from an analytical perspective that
14 combined accounting, engineering, and economic disciplines. During my
15 employment at the Institute, I completed several studies for state public
16 utility commissions, including “The Impact of Measured Telephone Rates
17 on Telephone Usage of Government and Nonprofit Organizations” (for the
18 Public Utilities Commission of Ohio) and “Toward An Analysis of
19 Telephone License Contracts and Measured Rates” (for the Maryland
20 Public Service Commission). In addition, I have provided several state
21 Commissions with on-site technical and economic assistance. This

1 assistance was related to identifying, explaining and analyzing major issues
2 in telephone cases. Since joining J.W. Wilson & Associates, Inc. in May
3 1980, I have provided economic analysis in numerous proceedings in most
4 of the States of the United States, Canada, Bolivia, Nepal, Egypt, and
5 Tanzania. I have provided analysis for the Federal Communications
6 Commission and the United States Department of Justice. For example, I
7 testified on behalf of the Department of Justice in the case that broke up the
8 Bell system. In addition, I have worked for numerous State Attorneys
9 General and regulatory commissions. For example, I evaluated the merger
10 proposal of Bell Atlantic and NYNEX for the National Association of
11 Attorneys General, the Bell Atlantic and GTE merger proposal for the
12 Pennsylvania Attorney General, and the merger proposal of MCI and
13 WorldCom for the California Public Utilities Commission. A copy of my
14 resume is provided as Exhibit 1 to this testimony. As my resume indicates,
15 I have also been an expert witness in numerous state proceedings in all
16 areas of telecommunications regulation.

17 **Q. ARE YOU A MEMBER OF ANY PROFESSIONAL**
18 **ORGANIZATIONS AND HONOR SOCIETIES?**

19 **A.** Yes. I am a member of the Society of Depreciation Professionals, the
20 American Economic Association, Omicron Delta Epsilon (an international

1 honor society in economics) and Beta Gamma Sigma (an honor society in
2 business).

3 **Q. COULD YOU BRIEFLY SUMMARIZE YOUR PROFESSIONAL**
4 **RESPONSIBILITIES TO DATE?**

5 A. Yes. My primary responsibilities have been to supervise and actively
6 participate in public utility regulatory policy research, especially in the
7 telecommunications field. These responsibilities required the use and
8 application of economic, accounting, and engineering analyses.

9 **Q. ON WHOSE BEHALF ARE YOU TESTIFYING?**

10 A. I present this testimony on behalf of the South Carolina Department of
11 Consumer Affairs (Consumer Advocate).

12 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

13 A. I was asked by the Consumer Advocate to analyze the BellSouth
14 Telecommunications, Inc. ("BellSouth") proposed "Guidelines for
15 Alternative Form of Regulation" ("Guidelines"). I have analyzed the
16 proposed Guidelines and agree with BellSouth that they comply with S.C.
17 Code Section 58-9-576, however, I believe that some minor changes would
18 improve them. Therefore, I recommend in the next section a few additions
19 and clarifications to the proposed Guidelines.

II. ADDITIONS AND CLARIFICATIONS TO THE PROPOSED GUIDELINES

Q. WHAT CLARIFICATIONS DO YOU SUGGEST?

A. I recommend three changes that I believe are needed to provide adequate safeguards to consumers of telecommunications services. First, I suggest that the meaning of "aggregate revenues" be defined. In Article III Section 7 it states that, "BellSouth's price increases for services other than Basic Services should not exceed five percent (5%) of aggregate revenues in a twelve (12) month period." BellSouth, in response to the Consumer Advocate Interrogatory No. 1-2 (See Exhibit 2), states that "aggregate revenues, as used in Section 7, of the proposed guidelines, are total annual revenues for services covered under S.C. Code Section 58-9-576 with the exception of flat-rated residential and single-line business." I suggest that by adding BellSouth's definition to the Section it will be clear as to what revenues are included and over what period.

My second suggestion is also related to clarification of the Guidelines. In Article IV Section 5(i)(a) the language states that a “complaining party must establish that discrimination has occurred” (emphasis added). It is clear from BellSouth’s response to CA Interrogatory No. 1-3 that BellSouth wants the customer to state why they believe discrimination has occurred, not that the customer must “establish” or prove in the complaint that

1 discrimination has occurred. I suggest changing "establish" to "state." The
2 customer or complaining party will need more information to actually
3 establish or prove that discrimination has taken place. The factual basis for
4 the complaint can be further evaluated if the Commission determines to
5 investigate the complaint.

6 Likewise, Section 5(i)(b) states that the complainant "must establish that
7 BellSouth has market power in a relevant market, that BellSouth prices its
8 services other than flat-rated local exchange services for residential and
9 single business customers in a way that harms competition in a relevant
10 market in South Carolina, and that competition in the market has been
11 harmed." Requiring a complainant to establish that BellSouth has market
12 power and that competition has been harmed is too stringent. No
13 complainant could establish market power or harm to competition without
14 extensive investigation -- an investigation that would require information
15 from BellSouth. A complainant has no power to compel BellSouth to
16 answer its interrogatories. In addition, the harm to competition, if there is
17 any, would probably take place after the rate has been in effect rather than
18 instantaneously. The harm to competition is really the potential harm to
19 competition. The complainant should state why they believe BellSouth has
20 market power and why BellSouth's actions harm competition. I
21 recommend changing "establish" to "state," and I also recommend

1 changing "that competition in the market has been harmed" to "that
2 competition in the market may be harmed."

3 **Q. ARE THERE OTHER GUIDELINES THAT SHOULD BE ADDED**
4 **TO ASSESS WHETHER COMPETITION HAS BEEN HARMED IF**
5 **ALLEGED BY A COMPLAINANT?**

6 A. Yes. Section 6 of Article IV contains the guidelines for BellSouth's answer
7 to a complaint. I believe that BellSouth's answer must include an answer to
8 a complaint related to harming competition that includes a showing that
9 BellSouth's price is above its incremental costs. This will give the
10 Commission an indication of whether the market is harmed. In the past this
11 Commission has required BellSouth's prices for these competitive services
12 to be above costs. I recommend that this requirement continue.

13 **Q. DO YOU HAVE ANY OTHER SUGGESTED ADDITIONS TO THE**
14 **GUIDELINES?**

15 A. Yes. Although not required by the statutes, BellSouth has agreed to limit
16 price increases to 5% of aggregate revenues. As I suggested earlier, the
17 Guidelines are appropriate, however, they do not give customers time to
18 react to price increases. Section 58-9-576 (B)(6) states that for price
19 increases the tariff will be presumed to be valid after fourteen days. I do
20 not have a problem with the 14 days, however, I do see a problem in that

1 there is no requirement to notify customers and give them a chance to find
2 alternative service if they desire. Consumers need more than fourteen days
3 to determine whether to change to another service provider. I suggest a
4 ninety-day (90) transition period for existing customers. I suggest the
5 Commission add the following to Section 7:

6 For price increases, the tariff will be presumed to be valid 15
7 days after customers have been notified, and applied to
8 existing customers after 90 days.

9 This will insure that customers are notified and given a chance to make
10 decisions regarding their service providers.

11 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

12 **A. Yes, it does.**

Allen G. Buckalew

Mr. Buckalew is a Principal and Senior Economist with J.W. Wilson & Associates, Inc., specializing in economic valuation matters and public utility regulation with particular interest in rate structure, cost of service, antitrust and industrial organization. Since joining the firm, his research and analytic activities have focused on international trade, business and contract economics, and telecommunications including the areas of jurisdictional separations, license contracts, rate structure, rate design and competition in the telecommunications industry. Mr. Buckalew has appeared as an expert witness on numerous occasions before state and federal regulatory commissions.

EDUCATION

A.A.	University of Florida, March 1974
B.S.	Business Administration (Economics) with High Honors; University of Florida, March 1975
M.S.	Special Studies (Economics & Telecommunications), George Washington University, September 1977

ACADEMIC HONORS:

President's List
Beta Gamma Sigma - Honor Society in Business
Omicron Delta Epsilon - International
Honor Society in Economics

EMPLOYMENT

1980 - present	Economist J.W. Wilson & Associates, Inc. Washington, D.C.
1979 -1980	Associate Director The National Regulatory Research Institute Telecommunications Research Columbus, Ohio
1975 - 1979	Economist Federal Communications Commission Washington, D.C.

PROFESSIONAL ORGANIZATIONS

American Economic Association
Society of Depreciation Professionals
Alpha Kappa Psi

PROFESSIONAL WORK

At The National Regulatory Research Institute (NRRI), Mr. Buckalew's primary responsibility was to supervise and participate in public utility regulatory policy research, especially in the telecommunications field, including economics, accounting and engineering analyses. In addition, Mr. Buckalew's responsibilities included assisting the Director of the Institute in the areas of organizational goals, recruitment, and promotion of personnel.

MAJOR PROJECTS AT NRRI

1. Impact of Measured Telephone Rates on Telephone Usage of Government and Non-Profit Organizations, for the Public Utilities Commission of Ohio, 1979.
2. Toward An Analysis of Telephone License Contracts and Measured Rates, for the Maryland Public Service Commission, 1979.
3. "Technical Assistance to the Public Service Commission of Minnesota in its Consideration of Telephone Rate Increase Petitions," 1979.
4. "Regulatory Approaches for the Transition from a Monopoly Environment to a Competitive Environment in the Telecommunications Industry," for the Public Service Commission of the District of Columbia, 1980.
5. "Technical Assistance for the Development and Application of Regulatory Methods for Major Telephone Rate Applications," for the Public Utilities Commission of Ohio, 1980.

While at the Federal Communications Commission (FCC), Mr. Buckalew worked in the Common Carrier Bureau. Mr. Buckalew's responsibilities included economic analysis of industry data relative to tariff matters and economic studies in conjunction with formal docket proceedings. He also planned, selected the methods and carried out studies of cost materials submitted by carriers in support of tariff filings. He identified sources for additional information and obtained other pertinent data, and applied a variety of economic techniques to analyze and compare various elements of a carrier's filing.

One of his main tasks was to determine the validity of data filings in order to determine and evaluate the impact of the filings on economic issues which include rate levels, rate structure and rate of return. In addition, he initiated studies of the economic impact of alternative rate structures. On the basis of the analysis, he identified alternatives and presented and justified these recommendations for Commission action.

He also served as economic advisor and analyst for staff counsel with regard to complex economic and statistical issues and provided advice on aspects of such subjects as rate of return, rate level, rate structure, cost elements and cost functions.

MAJOR PROJECTS AT FCC

1. Docket 20003, The Economic Implications and Interrelationships Arising from Policies and Practices Relating to Customer Interconnection, Jurisdictional Separations and Rate Structures.
2. Docket 16070, Communications Satellite Corporation, Investigation into Changes, Practices, Classification, Rates and Regulations.
3. Common Carrier Industry Structure Report for Congress, The House of Representatives Subcommittee on Oversight and Investigations of the Committee on Interstate and Foreign Commerce.
4. International Record Carriers, developed rate of returns and investigated alternative forms of regulation.
5. Demand model for interstate toll communications services.
6. Determining the economic criteria for "Like" communications services.
7. Docket 21499, AT&T's facilities provided to other common carriers.
8. Docket 18128, AT&T's Revisions of the Tariff. FCC No. 260, Private Line Services. This docket has increased attention and analysis on all services provided by common carriers, since this docket established a cost methodology, fully distributed costs, for all AT&T services. Cases that I have worked on in connection with Docket 18128 include:
 - A. AT&T Dataphone Digital Services;
 - B. AT&T Private Line Service, Series 7000 or Television Transmission; and
 - C. Applying Docket 18128 to miscellaneous common carriers.

REPORTS

A Study of Jurisdictional Separations to Compare AT&T's Interstate Settlements Information System with the Separations Manual and Division of Revenues Process, J.W. Wilson & Associates, Inc., September 1980 (co-author).

Analysis of Independent Telephone Company Access Tariffs, (Montana), J.W. Wilson & Associates, Inc., March 1988.

Analysis of the Competitive Issues Related to the Expansion of NYNEX Material Enterprises' Business, before Judge Greene, Civil Action No. 82-0192, September 1986.

Analysis of the Bell Atlantic Cost of Service Manual, FCC File No. AAD 7-1671, September 1987.

Analysis of the FCC Price Cap Model, FCC Docket No. 87-313, October 1987.
Comments of National Association of State Utility Consumer Advocates on the Department of Justice Recommendations, J.W. Wilson & Associates, Inc., 1987.

Comments to the City of New York Energy and Telecommunications Office on Deregulation Proposals Before the New York Public Commission, J.W. Wilson & Associates, Inc., December 1987.

Telephone Company Service Deregulation, (Maryland), J.W. Wilson & Associates, Inc., April 1988.

Preliminary Report on Ecolochem's Lost Profits Due to Southern California Edison Company's Patent Infringement, U.S. District Court, Central District of California, Case No. 92 3436 RG CJG (JGx), August 9, 1993.

Report on Petroleum Rock Bits, Civil Action No. H-9-627, J.W. Wilson & Associates, Inc., October 1993.

Analysis of the U.S. Portland Cement Industry, J.W. Wilson & Associates, Inc., June 1994.

Developing the Telecommunications Regulatory and Analytical Capabilities of the Tanzania Communications Commission, (The World Bank), J.W. Wilson & Associates, Inc., July 1994.

A Study On Regulatory Integration: Cable Television and Telecommunication, Hawaii Legislature, December 1994.

Report On Coors Brewing Company's Economic Damages, Civil Action No. 94-k-728, J.W. Wilson & Associates, June 1996.

Preliminary Report on the Feasibility and Legal Consideration for the Establishment of A Municipal Election System, submitted to The Town and Village of Canton and The Town and Village of Potsdam of St. Lawrence County, N.Y., J.W. Wilson & Associates, August 1996.

Payment of Claims Using HIAA's Database as a Source for "Reasonable and Customary" Charges, before Judge Graham, No. C-2-95-1273, January 1997.

Report to the Office of People's Counsel of the District of Columbia on Bell Atlantic's Merger Commitments to the Federal Communication Commission, August 1997.

Regulatory Requirements For Bell Operating Company Entry Into InterLATA Services In Compliance With Section 271 of the Telecommunications Act of 1996, report submitted to the Office of People's Counsel of the District of Columbia, October 1997.

CABLE ADVICE AND ASSISTANCE

U.S. District Court, South Carolina, Columbia Division --

Expert advice and analysis in U.S. District Court, South Carolina, Columbia Division, C.A. No. 3:92-2976-17, MCI Telecommunications Company v. GEO Systems Design and Testing, Inc.

Before U.S. Court of California --

MCI vs. Miramontes Construction, et. al., Report on MCI damage calculations on behalf of defendants. (October 1993)

Before the U.S. District Court for So. Georgia, Savannah Division --

Expert advice on MCI's damage claims in Civil Action No. CV492-263. (1993)

Before the U.S. Court, Tyler, Texas --

Expert advice in Docket No. 6:93cv720, MCI 's damage claims. (1994)

Municipal Association of South Carolina, City of Newberry --

Expert advice and analysis concerning the regulation of cable television rates.

Municipal Association of South Carolina, City of Bennettsville --

Expert advice and analysis concerning the regulation of cable television rates.

Municipal Association of South Carolina, City of Clemson --

Expert advice and analysis concerning the regulation of cable television rates.

Municipal Association of South Carolina, City of Columbia --

Expert advice and analysis concerning the regulation of cable television rates.

Municipal Association of South Carolina, City of Kiawah --

Expert advice and analysis concerning the regulation of cable television rates.

Municipal Association of South Carolina, City of Myrtle Beach --

Expert advice and analysis concerning the regulation of cable television rates.

Municipal Association of South Carolina, City of Kingstree --

Expert advice and analysis concerning the regulation of cable television rates.

Municipal Association of South Carolina, City of Marion --

Expert advice and analysis concerning the regulation of cable television rates.

Municipal Association of South Carolina, City of Spartanburg --

Expert advice and analysis concerning the regulation of cable television rates.

U.S. District Court of Eastern Michigan, Southern Division --

Expert advice and analysis of MCI's damage claim in Case No. 94 CV 71404 DT
MCI vs. Hamrich Wrecking Inc. et. al., (1994)

EXPERT TESTIMONY AND ADVICE

Before the Public Utilities Commission of Rhode Island --

Expert witness in Docket Nos. 1475 and 1560, New England Telephone & Telegraph Company; testimony concerning AT&T's license contracts, toll rates

and multi-element service charges; on behalf of the Staff of the Public Utilities Commission. (July 1980)

Before the Public Service Commission of Maryland --

Expert witness in Case No. 7467, Chesapeake & Potomac Telephone Company of Maryland; testimony concerning AT&T's license contract and business information systems; on behalf of the Maryland Office of the People's Counsel. (October 1980)

Before the Public Utilities Commission of Maine --

Expert witness in Docket No. 80-142, New England Telephone & Telegraph Company; testimony concerning AT&T's license contract, business information systems, jurisdictional separations and rate structure; on behalf of the Staff of the Public Utilities Commission. (December 1980)

Before the Public Service Commission of Georgia --

Expert witness in Docket No. 3231-U, Southern Bell Telephone & Telegraph Company; testimony concerning AT&T's license contract; on behalf of the Staff of the Public Service Commission. (February 1981)

Before the Public Service Commission of Mississippi --

Expert witness in Docket No. U-4042, Bay Springs Telephone Company, Inc.; testimony concerning affiliate relations, quality of service and rate design; on behalf of the Staff of the Public Service Commission. (September 1981)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 80.12.100, Mountain States Telephone & Telegraph Company; testimony concerning cost of service, affiliate relations and rate design; on behalf of the Montana Consumer's Counsel. (April 1981)

Before the Public Service Commission of South Carolina --

Expert witness in SCPSC Docket No. 81-201-C, Southern Bell Telephone & Telegraph Company; testimony concerning exchange cost-of-service and local coin telephone costs; on behalf of the Department of Consumer Affairs. (October 1981)

Before the United States District Court --

Expert witness in Civil Action No. 74-1698, United States of America v. American Telephone & Telegraph Company, Western Electric Company, Inc., and Bell

Telephone Laboratories, Inc.; testimony concerning private line issues; on behalf of the Department of Justice. (April 1981)

Before the Public Service Commission of Maryland --

Expert witness in Case No. 7591, The Chesapeake & Potomac Telephone Company; Two Phases; First Phase expert testimony on revenue requirement and separations issues; Phase Two rate design; on behalf of the Maryland Office of the People's Counsel. (November 1981)

Before the Public Service Commission of Maryland --

Expert witness in Case No. 7435, The Chesapeake & Potomac Telephone Company of Maryland; testimony concerning the establishment of appropriate principles for the pricing of existing competitive telephone services on behalf of the Staff of the Public Service Commission. (November 1981)

Before the Public Service Commission of West Virginia --

Expert witness in Case No. 81-315-T-42T, The Chesapeake & Potomac Telephone Company of West Virginia; testimony concerning cost of service for entire company operation by class; on behalf of the Staff of the Public Service Commission. (February 1982)

Before the Public Utilities Commission of Ohio --

Expert witness in Case No. 81-383-TP-AIR, The General Telephone Company of Ohio; testimony concerning costs and rate design; on behalf of the Consumer's Counsel. (January 1982)

Before the Public Service Commission of Montana --

Expert Witness in Docket No. 81.8.69, Northwestern Telephone Systems, Inc.; testimony concerning revenue requirements, separations and rate design; on behalf of the Consumer Counsel. (January 1982)

Before the Public Service Commission of the District of Columbia --

Expert witness in Case No. 777, The Chesapeake & Potomac Telephone Company; testimony concerning revenue requirements, separations, costs and rate design; on behalf of the People's Counsel. (March 1982)

Before the Public Utilities Commission of Hawaii --

Expert witness in Case No. 4306, the Hawaiian Telephone Company; testimony concerning revenue requirements, separations, rate designs and cost of service; on behalf of the Consumer Advocate. (April 1982)

Before the Public Service Commission of Utah --

Expert witness in Case No. 82-049-08, The Mountain States Telephone and Telegraph Company; testimony on license contracts and business information systems; on behalf of the Committee of Consumer Services. (October 1982)

Before the State Corporation Commission of New Mexico --

Expert witness in Case No. 1002, The Mountain States Telephone and Telegraph Company; testimony concerning jurisdictional separations; on behalf of the Staff of the Commission. (November 1982)

Before the State Public Service Commission of Michigan --

Expert witness in Case No. U-6505, The Michigan Bell Telephone Company; testimony concerning local measured service; on behalf of the Office of the Attorney General. (September 1982)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 82.6.37, the Mountain States Telephone and Telegraph Company, General Telephone of the Northwest, and Northwestern Telephone; testimony concerning depreciation changes, station connections and inside wiring, and the sale of terminal equipment; on behalf of the Consumer Counsel. (September 1982)

Before the State Public Service Commission of Montana --

Expert witness in Case No. 82.2.8, The Mountain States Telephone and Telegraph Company; testimony concerning affiliate relations, rates and rate structure, and jurisdictional separation; on behalf of the Consumer Counsel. (June 1982)

Before the Public Utility Commission of Texas --

Expert witness in Case No. 4545, Southwestern Bell Telephone Company; testimony concerning WATS rates, rate structure, and costs; on behalf of U.S. Telephone Communications, Inc. (August 1982)

Before the Federal Communications Commission --

In the matter of Cellular Mobile Telephone Applications, on behalf of Unity Broadcasting. (June 1982)

Before the Public Service Commission of Utah --

Expert witness in Case No. 82-049-08, the Mountain States Telephone and Telegraph Company; testimony concerning cost of service; on behalf of the Committee of Consumer Services. (October 1982)

Before the Utilities and Transportation Commission of Washington --

Expert witness in Case No. U-82-19, Pacific Northwest Telephone Company; testimony concerning affiliate relations, rate spread and depreciation practices; on behalf of the Staff of the Commission. (November 1982)

Before the Public Service Commission of Delaware --

Expert witness in Case No. 82-32, the Diamond State Telephone Company; testimony concerning Local Measured Service; on behalf of the Office of the Public Advocate. (November 1982)

Before the Public Service Commission of Maryland --

Expert witness in Case No. 7672, the Armstrong Telephone Company; testimony concerning Rate Design; on behalf of the Maryland Office of the People's Counsel. (November 1982)

Before the Public Utilities Commission of Hawaii --

Expert witness in Case No. 4678, the Hawaiian Telephone Company; testimony concerning Fully Separate Subsidiary; on behalf of the Private Telephone Association of Hawaii. (February 1983)

Before the Public Service Commission of Alabama --

Expert witness in Case No. 18548; testimony concerning Wide Area Telephone Service; on behalf of the Staff of the Alabama Public Service Commission. (February 1983)

Before the Public Service Commission of West Virginia --

Expert witness in Case No. 82-317-T-42T, The Chesapeake & Potomac Telephone Company; testimony concerning cost of service; on behalf of the Staff of the Public Service Commission. (January 1983)

Before the Public Service Commission of Maryland --

Expert witness in Case No. 7450 Phase II, the Chesapeake & Potomac Telephone Company; testimony concerning divestiture; on behalf of the Office of Maryland People's Counsel. (October 1983)

Before the Public Utilities Commission of Hawaii --

Expert witness in Case No. 4588, the Hawaiian Telephone Company; testimony concerning cost of service and rate design; on behalf of the Consumer Advocate. (October 1983)

Before the Public Service Commission of the District of Columbia --

Expert witness in Case No. 798, the Chesapeake & Potomac Telephone Company; testimony concerning rate design; on behalf of the Office of People's Counsel. (October 1983)

Before the Public Service Commission of Kentucky --

Expert witness in Cause No. 8847, South Central Bell Telephone Company; testimony concerning cost of service, rate design, license contract and divestiture; on behalf of the Office of the Attorney General. (October 1983)

Before the Corporation Commission of Oklahoma --

Expert witness in Cause No. 28002, the Southwestern Bell Telephone Company; testimony concerning rate design and divestiture; on behalf of the Office of the Attorney General. (October 1983)

Before the Public Service Commission of Montana --

Expert witness in Case No. 83.3.18, the Mountain States Telephone and Telegraph Company; testimony concerning rate design, license contract and cost of service; on behalf of the Montana Consumer Counsel. (July 1983)

Before the Public Service Commission of Utah --

Expert witness in Docket No. 83-049-05, the Mountain States Telephone and Telegraph Company; testimony concerning license contract; on behalf of the Committee of Consumer Services. (September 1983)

Before the Public Service Commission of Delaware --

Expert witness in Docket No. 83-12, the Diamond State Telephone Company; testimony concerning rate design; on behalf of the Office of the Public Advocate. (December 1983)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 83.6.47; testimony concerning access charges; on behalf of the Office of Consumer Counsel. (August 1983)

Before the Public Service Commission of Maryland --

Expert witness in Case No. 7450-Phase II/7735, the Chesapeake & Potomac Telephone Company; testimony concerning rate design, divestiture and cost of service; on behalf of the Maryland Office of the People's Counsel. (August 1983)

Before the Public Service Commission of Montana --

Expert witness in Docket No 83.2.9, the Mountain States Telephone and Telegraph Company; testimony concerning Local Measured Service; on behalf of the Office of the Consumer Counsel. (July 1983)

Before the State Corporation Commission of Virginia --

Expert witness in Case No. PUC 830029, the Chesapeake & Potomac Telephone Company; testimony concerning cost of service; on behalf of the Staff of the Commission. (November 1983)

Before the Public Service Commission of Missouri --

Expert witness in Case No. TR-83-253, the Southwestern Bell Telephone Company; testimony concerning divestiture; on behalf of the Office of the Public Counsel. (September 1983)

Before the Public Service Commission of South Carolina --

Expert witness in Docket 83-253-C and 82-134-C, the Southern Bell Telephone Company (also generic proceedings); testimony concerning Local Measured Services and Access Charges; on behalf of the South Carolina Department of Consumer Affairs. (August 1983)

Before the Public Service Commission of Kentucky --

Expert witness in Case No. 8859, the General Telephone company; testimony concerning separate subsidiary, rate design and cost of service; on behalf of the

Office of the Attorney General and the Lexington-Fayette Urban County Government. (September 1983)

Before the Public Utility Commission of Texas --

Expert witness in Docket No. 5220, Southwestern Bell Telephone; testimony concerning cost of service; on behalf of Consumer's Union, et. al. (December 1983)

Before the Public Utilities Commission of Minnesota --

Expert witness in MPUC Docket No. P-421/GR-83-600, OAH Docket No. PUC 84-057-BC, Northwestern Bell Telephone Company; testimony concerning local exchange costs, on behalf of the Suburban Rate Authority. (December 1983)

Before the Public Service Commission of Alabama --

Expert witness in Docket No. U-18882, the South Central Bell Telephone Company; testimony concerning adjustment of intrastate rates and charges; on behalf of the Public Staff for Utility Consumer Protection. (February & May 1984)

Before the U.S. District Court for the District of Oregon --

U.S. District Court for the District of Oregon, Civil Nos. 76-965-BE, 83-1261, 74-987; concerning AT&T's monopolization of the terminal equipment market. (May 1984)

Before the Public Service Commission of Utah --

Expert witness in Case No. 84-049-01, the Mountain States Telephone and Telegraph Company; testimony concerning increase in rates and associated tariff revisions; on behalf of the Committee of Consumer Services. (June & August 1984)

Before the Commerce Commission of Iowa --

Expert witness in Docket No. RPU-84-7, the Northwestern Bell Telephone Company; testimony concerning local exchange rates, affiliate relations, and depreciation; on behalf of the staff of the Commission. (June 1984)

Before the Commerce Commission of Illinois --

Expert witness in Docket No. 84-0111, the Illinois Bell Telephone Company; testimony concerning restructuring of Centrex services; on behalf of NATA. (June 1984)

Before the Public Service Commission of Utah --

Expert witness in Case No. 84-999-08, the Mountain States Telephone and Telegraph Company; testimony concerning restructuring of extended area service and exchange service charges; on behalf of the Committee of Consumer Services. (August 1984)

Before the Public Service Commission of Hawaii --

Expert witness in Docket No. 3423-Phase IV, the Hawaiian Telephone Company; testimony concerning local measured service rate structures; on behalf of the Consumer Advocate. (October 1984)

Before the Public Service Commission of Florida --

Expert witness in Docket Nos. 8200494-TP, 8200495-TP, 820529-TP, 830516-TP, the General Telephone Company of Florida, the Central Telephone Company of Florida, the Continental Telephone Company of South Florida, and the Southern Bell Telephone and Telegraph Company; testimony concerning the methods whereby telephone companies should offer terminal equipment; on behalf of NATA. (July 1984)

Before the Public Service Commission of Montana --

Expert witness in Utility Division Docket No. 84.4.15; testimony concerning intrastate access charges; on behalf of the Montana Consumer Counsel. (August 1984 and October 1985)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 84.4.19, the Mountain States Telephone and Telegraph Company; testimony concerning rate increases and approval of tariff charges for telecommunications service; on behalf of the Montana Consumer Counsel. (August 1984 and May 1985)

Before the Connecticut Department of Public Utility Control --

State of Connecticut, Department of Public Utility Control, Docket No. 83-01-24; to present findings concerning the accounting procedures for regulated activities employed by Southern New England Telephone Company. (July 1985)

Before the Public Service Commission of the District of Columbia --

Expert witness in Case No. 827, the Chesapeake & Potomac Telephone Company; testimony concerning restructuring of rates and charges; on behalf of the Office of People's Counsel of the District of Columbia. (March, April, and August 1985)

Before the Public Service Commission of Maryland --

Expert witness in Case No. 7851, the Chesapeake & Potomac Telephone Company; testimony concerning restructuring of rates, cost and accounting issues including affiliate relations on behalf of the Maryland Office of the People's Counsel. (March, April 1985)

Before the Public Service Commission of Kentucky --

Expert witness in Case No. 9160, South Central Bell Telephone Company; testimony concerning bypass costs, and rate design; on behalf of the Attorney General. (January 1985)

Before the Public Service Commission of Utah --

Expert witness in Case No. 85-049-02, the Mountain States Telephone and Telegraph Company; testimony concerning affiliate relations, rate design and cost of service; on behalf of the Committee of Consumer Services. (September and October 1985)

Before the Public Service Commission of West Virginia --

Expert witness in Case No. 84-747-T-42T, the Chesapeake & Potomac Telephone of West Virginia; testimony concerning rate design with respect to access charges; on behalf of the Staff of the Commission. (June 1985)

Before the Corporation Commission of Oklahoma --

Expert witness in Case No. 29321, the Southwestern Bell Telephone Company; testimony concerning rate design and affiliate enterprises of Southwestern Bell Telephone Company; on behalf of the Office of the Attorney General. (August 1985)

Before the Commerce Commission of Illinois --

Expert witness in Docket No. 85-0079, the Continental Telephone Company of Illinois; testimony concerning the transfer of toll NTS costs to local exchange service and rate design; on behalf of the City of Freeport. (May 1985)

Before the Public Utilities Commission of Maine --

Expert witness in Docket No. 83-179, New England Telephone Company; testimony concerning local measured service; on behalf of the Office of the Public Advocate. (August 1985)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 84.4.15, the Mountain States Telephone and Telegraph Company; testimony concerning intrastate access charges; on behalf of the Montana Consumer Counsel. (October 1985)

Before the Public Service Commission of Maryland --

Expert witness in Case No. 7903, the Chesapeake & Potomac Telephone Company of Maryland; testimony analyzing the activities of Bell Communications Research, Inc., and the effects at affiliate enterprises; on behalf of the Maryland Office of the People's Counsel. (September 1985)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 85.5.17, Mountain Bell; testimony concerning depreciation rates; on behalf of the Montana Consumer Counsel. (October 1985)

Before the Public Utilities Commission of Hawaii --

Expert witness in Docket No. 5114, Hawaiian Telephone Company; testimony cost characteristics of the company's telecommunication system, category cost of service analysis, and rate design; on behalf of the Consumer Advocate. (October 1985)

Before the Utilities and Transportation Commission of Washington --

Expert witness in Cause No. U-85-23, et. al., all telephone companies operating in Washington; testimony concerning costs and access charge structures; on behalf of the staff of the Commission. (December 1985)

Before the Utilities and Transportation Commission of Washington --

Expert witness in Cause No. U-85-52, Pacific Northwest Bell; testimony on rate design and costs; on behalf of the Public Counsel. (January 1986)

Before the Public Service Commission of Maryland --

Expert witness in Case No. 7936, C&P Telephone Company of Maryland; testimony on access charges; on behalf of the Maryland Office of the People's Counsel. (March 1986)

Before the Utilities and Transportation Commission of Washington --

Cause No. U-85-68, AT&T Communication of the Pacific Northwest, advice to Public Counsel on rate design and costs. (April 1986)

Before the Public Service Commission of Maryland --

Expert witness in Case No. 7941, AT&T Communication of Maryland; testimony on costs and rate design; on behalf of the Maryland Office of the People's Counsel. (May 1986)

Before the Public Service Commission of South Carolina --

Expert witness in Docket No. 86-272-C, Southern Bell; testimony on costs and rates for E911; on behalf of the Consumer Advocate. (September 1986)

Before the Public Service Commission of South Carolina --

Expert witness in Docket No. 85-243-C; testimony on the approach to deregulating inside wire for the State's telephone companies; on behalf of the Consumer Advocate. (September 1986)

Before the Public Service Commission of South Carolina --

Expert witness in Docket No. 86-76-C, General Telephone Company of the South; testimony on the cost and benefits of local measured service; on behalf of the Consumer Advocate. (September 1986)

Before the Corporation Commission of Oklahoma --

Expert witness in Cause No. 28309; testimony on access costs and rates; on behalf of the Office of the Attorney General. (September 1986)

Before the Public Service Commission of Maryland --

Expert witness in Case No. 7902; C&P Telephone Company of Maryland; testimony on cost of service methods; on behalf of the Maryland Office of the People's Counsel. (October 1986)

Before the Public Utilities Commission of Minnesota --

Expert witness in Docket No. P999/CI-85-582, State of Minnesota, testimony on intraLATA toll access competition; on behalf of the Minnesota Department of Public Service. (October 1986)

Before the Public Service Commission of Indiana --

Expert witness in Cause No. 38059, the Indiana Bell Telephone Company, Inc., testimony concerning local calling plan rates; on behalf of the Association of Concerned Telephone Users and the Indiana Burglar and Fire Alarm Association. (November 1986)

"Analysis of the Competitive Issues Related to the Expansion of NYNEX Materiel Enterprises' Business". (September 1986)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 86.12.67, AT&T Communications of the Mountain States, Inc.; testimony concerning rate increases and charges and for approval of permanent rates; on behalf of the Montana Consumer Counsel. (April 1987)

Before the Canadian Radio-Television and Telecommunications Commission-

Expert witness in Public Notice 1987-15, Bell Canada and British Columbia Telephone Company; testimony on rate rebalancing and revenue settlement issues; on behalf of The National Anti-Poverty Organization. (August 1987)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 86.11.62, the Mountain States Telephone & Telegraph Company; testimony on rate design and revenue requirement; on behalf of the Montana Consumer Counsel. (October 1987)

Before the Public Utilities Commission of Maine --

Expert witness in Docket No. 86-224, New England States Telephone & Telegraph Company; testimony concerning affiliate relations; on behalf of the Maine Public Advocate. (October 1987)

Before the Utilities and Transportation Commission of Washington --

Expert witness in Cause No. U-87-796-T/799-T, Pacific Northwest Bell Telephone Company; testimony on private line rates on behalf of the staff of the Commission. (November 1987)

Before the Public Service Commission of South Carolina --

Expert witness in Docket No. 87-503-C, Southern Bell Telephone and Telegraph Company; testimony concerning touch-tone rate increases to offset alleged WATS losses; on behalf of the South Carolina Consumer Advocate. (December 1987)

The Canadian Radio-Television and Telecommunication Commission --

Analysis in Cost Inquiry Phase III, Bell Canada; analysis of cost manual; on behalf of the Public Interest Advocacy Center. (March 1988)

Before the Public Service Commission of South Carolina --

Expert witness in Docket No. 86-625-C, United Telephone Company of the Carolinas; testimony concerning access charges and local exchange rate design; on behalf of South Carolina Consumer Advocate. (April 1988)

The Public Service Commission of New York --

Advice in Case 88-C-063; New York Telephone; analysis of components of competitive services, prevention of cross-subsidization and structural safeguards; on behalf of the New York City Energy and Telecommunications Office. (May 1988)

The Washington Utilities and Transportation Commission --

Analysis in Docket No. U-87-156-P, United Telephone Company of the Northwest; analysis of billing and collection services; on behalf of the Attorney General. (April 1988)

The Public Service Commission of the District of Columbia --

Advice in TT 84-5, the Chesapeake and Potomac Telephone Company; analysis of the tariffs and method of offering 976 services; on behalf of the Office of People's Counsel. (April 1988)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 88.2.5, the Mountain States Telephone and Telegraph Company; testimony concerning revised depreciation schedules and recovery of revenue requirement; on behalf of Montana Consumer Counsel. (April 1988)

The Canadian Radio-Television and Telecommunications Commission --

Advice in 1988 Construction Program Review, Bell Canada; assistance in preparing comments on construction plans; on behalf of National Anti-Poverty Organization. (June 1988)

The Washington Utilities and Transportation Commission --

Advice in Cause No. U-86-156, Pacific Northwest Bell; analysis of directory operations of U S West Direct; on behalf of the Attorney General. (June 1988)

Before the Washington Utilities and Transportation Commission --

Expert witness in Docket No. U-88-2052-P, Pacific Northwest Bell Telephone Company; testimony concerning the classification of services as competitive; on behalf of the Commission Staff. (September 1988)

Before the Public Service Commission of Montana --

Expert witness in Docket 88.1.2, the Mountain States Telephone and Telegraph Company; testimony concerning revenue requirements, competitive classification of services, cost analysis and rate design; on behalf of the Montana Consumer Counsel. (September 1988)

Before the Utilities Board of Iowa --

Expert witness in Docket No. RPU-88-6, Northwestern Bell Telephone Company; testimony concerning revenue requirements; on behalf of the Office of Consumer Advocate. (September 1988)

Before the Utilities Board of Iowa --

Expert witness in Docket No. RPU-88-9, Northwestern Bell Telephone Company; testimony concerning rate design; on behalf of the Office of Consumer Advocate. (November 1988)

Before the Public Service Commission of South Carolina --

Expert witness in Docket No. 88-472-C, petition of AT&T Communications of the Southern States, Inc.; testimony concerning access charges for all local exchange carriers in South Carolina; on behalf of the Department of Consumer Affairs. (December 1988)

The Department of Public Utility Control of Connecticut --

Advice and analysis in Docket No. 88-03-31 to the Commission in its investigation into the costs of providing intrastate telecommunications services by the Southern New England Telephone Company. (1989)

The Public Service Commission of Montana --

Advice in Docket 88.12.55, U S West Communications (formerly known as Mountain Bell); analysis of 1989 separations costs; on behalf of Montana Consumer Counsel. (March 1989)

Before the Maryland Public Service Commission --

Expert witness in Case No. 8150, the Chesapeake and Potomac Telephone Company of Maryland; testimony concerning centrex rates and cost structure; on behalf of the Maryland People's Counsel. (April 1989)

Before the Delaware Public Service Commission --

Expert witness in Docket No. 86-20, Phase III, the Diamond State Telephone Company; testimony concerning rate design and flexible pricing for competitive services; on behalf of the Office of Public Advocate. (June 1989)

Before the Maryland Public Service Commission --

Expert witness in Case No. 8193, International Telecharge, Inc.; testimony concerning revenue requirements and financial results of operation; on behalf of the Office of People's Counsel. (August 1989)

Before the Maryland Public Service Commission --

Expert witness in Case No. 8209, Generic Operator Services; testimony concerning whether alternative operator service were in the public interest and operating standards; on behalf of the Office of People's Counsel. (September, October, November 1989)

Before the United States International Trade Commission --

Advice and analysis in the matter of certain telephone systems and subassemblies thereof from Japan, Korea and Taiwan, Investigation Nos. 731-TA-426-428 (Final), on behalf of Fujitsu, Hasegawa, Hitachi, Iwatsu, Matsushita, Meisei, Nakayo, NEC, Nitsuko and Toshiba. (November 1989)

The Maryland Public Service Commission --

Advice in Case No. PSC 8026 exchange area restructure analysis. (1989-1990)

Hawaiian Legislature --

Act 189 Study of Local Measured Service. (1989-1990)

Before the Maryland Public Service Commission --

Expert witness in Case No. 7842-III; testimony concerning the provision of customer-owned, coin operated telephones. (March 1990)

Montana Consumer Counsel --

Analysis and advice regarding U S West Communications plan for alternative regulation in Montana. (1990)

Maryland Peoples' Counsel --

Analysis and advice in FCC CC Docket No. 87-313, Policy and Rules Concerning Rates for Dominant Carriers. (March 1990)

Maryland Peoples' Counsel --

Analysis and advice on the FCC's LEC Rate of Return Represcription, CC Docket No. 89-624. (March 1990)

Maryland People's Counsel --

Analysis and advice on C&P regulatory structure and cost implementation procedures, Case No. 8274. (1990)

Montana Consumer Counsel --

Analysis and report on Mountain Bell's 1989 financial condition. (June 1990)

Before the United States International Trade Commission --

Analysis and advice in the matter of Gray Portland Cement and Clinker from Japan, Investigation No. 731-TA-461, on behalf of Cemex. (June 1990)

South Carolina Department of Consumer Affairs --

Analysis and advice on incentive regulation for South Carolina telephone companies, Docket No. 90-266-C. (July 1990)

Before the United States International Trade Commission --

Analysis and advice in the matter of Gray Portland Cement and Clinker from Mexico, Investigation No. 731-TA-451, on behalf of Cemex. (July 1990)

South Carolina Department of Consumer Affairs --

Analysis and advice on cellular interconnection charges, Docket Nos. 90-202-C and 90-203-C. (August 1990)

Before the South Carolina Public Service Commission --

Analysis and advice in the matter of the application of Southern Bell Telephone and Telegraph Company to avail itself of incentive regulation in its intrastate operations, Docket No. 90-626-C. (January 1991)

Before the Connecticut Department of Public Utility Control --

Analysis and advice in the DPUC investigation into the rate structures and operational and financial statures of the Southern New England Telephone Company, Phase II, Docket No. 89-12-05: ES:BLM. (May 1991)

Before the District of Columbia Public Service Commission --

Advice and analysis in the matter of the investigation into the reasonableness of the authorized return on equity, rate of return, and current charges and rates for telecommunications service offered by the Chesapeake and Potomac Telephone Company, Formal Case No. 850. (July 1991)

Before the Montana Public Service Commission --

Analysis and advice in the matter of the application of U S West Communications for approval of an alternative form of regulation, Docket Nos. 90.12.89, 89.8.28, 89.8.29, 89.9.29, 90.5.32. (September, 1991)

Before the U.S. District Court of Minnesota, Third Division --

U. S. District Court of Minnesota, Third Division, Civil Action No. CV-3-90-240; concerning anticompetitive practices and resulting damages caused by of Fujitsu Systems of America, Inc. (October 1991)

Before the U.S. District Court, Northern District --

Northern District of Illinois, Eastern Division, Civil Action No. 87 C 3839; report on Ecolochem's lost profits due to Arrowhead's alleged patent infringement. (November 1991)

Before the United States District Court for the Eastern District of Pennsylvania --

Advice and analysis on pricing structures within the sodium bicarbonate (soda ash) market on behalf of the P.Q. Corporation in Court Case # 90-7353. (1991)

Before the South Carolina Public Service Commission --

Advice and analysis in the matter of Southern Bell Telephone and Telegraph Company's proposal to change access charges, Docket No. 91-532-C. (December 1991)

Before the District of Columbia Public Service Commission --

Advice and analysis in the matter of the investigation of the Chesapeake and Potomac Telephone Company's General Regulation Tariff No. 201, Section 1, TT91-3. (January 1992)

Before the U.S. District Court for Northern Florida --

U.S. District Court for Northern Florida, USA ex. v. Falsetti v. Southern Bell - GSA-RFP, Civil Action No. TC491 40267-W5; investigation into Southern Bell's repair services activities and reports. (April 1992)

Before the Public Utilities Commission of Hawaii --

Expert witness in Docket No. 6801, GTE Hawaiian Telephone Company; testimony regarding the cost and financial impacts of the reorganization by Commission Order No. 11613. (November 1992)

Before the U.S. District Court of Texas, Houston Division --

Southern District of Texas, Houston Division, Civil Action No. H-91-627, regarding anticompetitive practices and quantifying the damages resulting from the alleged anticompetitive practices by Baker Hughes Inc., Hughes Tool Company, Reed Tool Company, Camco International Inc., and Smith International, Inc. (November 1992)

Before the Public Service Commission of Maryland --

Expert witness in Case No. 8462, Chesapeake and Potomac Telephone Company of Maryland; testimony analyzing C&P's proposed rate changes and to propose alternatives. (August 1992)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 90.6.39, the Montana Power Company; testimony evaluating the transactions that have occurred between Montana Power Company and Telecommunications Resources, Inc., which Montana Power Company leased certain property rights. (May 1992)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 92.3.12, GTE Northwest Incorporated; testimony analyzing jurisdictional separations, deregulated service costs, depreciation rates, and impact of GTNW's merger with regard to costs, rates and rate structure. (October 1992)

Before the Public Service Commission of South Carolina --

Expert witness in Docket Nos. 92-182-C, 92-183-C, 92-200-C, MCI Telecommunications Corporation, Sprint Communications Company, and AT&T Communications; testimony analyzing MCI's, AT&T's and Sprint's proposal to allow intraLATA competition. (September 1992)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 92.7.32, Northwestern Telephone Systems, Inc.; testimony regarding rate design changes. (October 1992)

Before the Public Service Commission of South Carolina --

Expert witness in Docket No. 92-271-C, United Telephone Company; testimony regarding the competitive markets that United is subject to in South Carolina. (October 1992)

Before the Circuit Court of Prince William County --

Circuit Court of Prince William County, Prince William Water Authority v. Virginia-American Water Company, Law No. 30361; concerning the value of property to be acquired from Virginia-American Water Company in its effort to condemn, acquire and take over operation of water utility service. (December 1992)

The Department of Public Utility Control of Connecticut --

Expert witness in Docket No. 92-09-19, Southern New England Telephone Company; testimony analyzing the Company's filed increase in its depreciation rates. (March 1993)

Before the U.S. District Court of Minnesota, Third Division --

United States District Court of Minnesota, Third Division, Civil File No. 3-93-197; concerning alleged price fixing and anticompetitive practices of Canadian potash producers. (June 1993)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 93.5.23, U S West Communications, Inc., testimony examining the impact of the proposed sale of U S West Communications exchanges to telephone companies in Montana. (August 1993)

Before the U.S. District Court, Southern District --

United States District Court, Southern District of New York, MDL No. 948; concerning Industrial Diamonds Antitrust Litigation. (September 1993)

Before the Public Service Commission of Maryland --

Expert witness in Case No. 8584, MFS Intelenet of Maryland, Inc., testimony concerning implementation of reporting and service requirements to provide telephone service in Maryland. (November 1993)

Before the Public Utilities Commission of Ohio --

Expert witness in Case No. 93-551-TP-CSS, Cincinnati Bell Telephone Company, testimony concerning overall level of rates to generate the OCC recommended revenue requirement reduction. (December 1993)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 93.7.30, GTE Northwest, Inc., Citizens Telecommunications Company of Montana, testimony analyzing impact of proposed sale of GTE-NW exchanges to Citizens. (December 1993)

Before the U.S. District Court, Western District of Tennessee Western Division --

United States District Court, Western District of Tennessee Western Division, No. 92-2431 GA, concerning Tennessee banks relevant internal costs. (December 1993)

Before to U.S. District Court, Central District of California --

Expert advice and analysis of lost profits due to patent infringement in Ecolchem, Inc. v. Southern California Edison Co., Case No. 92 3436 RG (JGx). (1993-1997).

Before the Public Service Commission of Maryland --

Expert witness in Case No. 8582, testimony analyzing how abbreviated dialing codes could be used to benefit Maryland ratepayers. (January 1994)

Before the Public Utilities Commission of Ohio --

Expert witness in Case No. 93-576-TP-CSS, Ohio Bell Telephone Company, testimony regarding the overall level of rates to generate the OCC recommended revenue requirement reduction. (February 1994)

Before the Public Utilities Commission of Ohio --

Expert witness in Case No. 93-432-TP-ALT, Cincinnati Bell Telephone Company, testimony concerning approval of an alternative form of regulation and for a threshold increase in rates. (February 1994)

Before the Public Service Commission of South Carolina--

Expert witness in Docket No. 93-504-C, GTE South, Inc., testimony concerning overall level of rates to generate the CA recommended revenue requirement reduction. (February 1994)

Before the Public Utilities Commission of Ohio --

Expert witness in Case Nos. 93-487-RP-ALT and 93-576-TP-CSS, Ohio Bell Telephone Company, testimony concerning alternative regulation, rate design, and revenue requirements. (May 1994)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 94.1.6, U S West Communications, Inc.; testimony concerning rate changes to implement the agreed to revenue reduction (Tariff 94-5). (May 1994)

Before the Public Service Commission of South Carolina --

Expert witness in Docket No. 93-503-C, Southern Bell; testimony concerning rate design. (August 1994)

The World Bank (Tanzania) --

Expert advice and assistance in establishing the Tanzania Communications Commission, continuing advice and assistance on tariff implementation, industry structure and training. (1994-1995)

Before the Public Service Commission of Montana --

Expert witness in Docket No. 94.2.5; testimony concerning extended area service. (December 1994)

Before the District Court of Travis County, Texas--

331st Judicial District Court of Travis County, Texas, Cause No. 91-13079, expert advice and analysis in State of Texas v. Abbott Laboratories, Inc., et al. (1994)

Before the Federal Trade Commission --

Expert advice and analysis in FTC File No. 941-0102, regarding the Eli Lilly Company merger. (1994)

Before the Wisconsin Circuit Court for Dane County --

Circuit Court of Wisconsin for Dane County, expert advice and analysis regarding violations of Wisconsin antitrust laws and trade regulations of various companies in the pharmaceutical industry. (1994)

Before the Connecticut Department of Public Utility Control --

Expert advice in Docket No. 91-03-02, testimony concerning charges incurred by competitive service providers to access the public switched telecommunications network.

Before the District of Columbia Public Service Commission --

Expert witness in Formal Case No. 920, Bell Atlantic Washington, D.C., Inc.; testimony concerning the investigation of the construction program and budget.

Before the Connecticut Department of Public Utility Control --

Expert advice in Docket No. 94-10-01, Southern New England Telephone Company, testimony concerning the cost of providing service.

Before the Connecticut Department of Public Utility Control --

Expert advice in Docket No. 94-10-02, Southern New England Telephone Company, testimony concerning unbundling of the local telecommunications network.

Before the Connecticut Department of Public Utility Control --

Expert advice in Docket No. 94-10-3, Southern New England Telephone Company, testimony concerning intrastate depreciation rates.

Before the Rhode Island Department of the Attorney General --

Expert advice on competition between hospital and the impact due to preferred provider networks.

Before the South Carolina Public Service Commission --

Expert witness in Docket No. 95-661-C, AT&T South Carolina, testimony concerning alternative regulation. (July 1995)

Before the District of Columbia Public Service Commission --

Expert witness in Formal Case No. 814, Phase IV, Bell Atlantic - Washington, D.C., testimony concerning price cap proposal for alternative regulation. (July 1995)

Before the South Carolina Public Service Commission --

Expert witness in Docket No. 95-720-C, Southern Bell Telephone and Telegraph Company, testimony concerning alternative regulation. (August 1995)

ARENTO Institutional Development Project, Cairo Egypt --

Expert advice and assistance to the Telecom Regulatory Seminar held at the National Telecommunications Institute in Cairo, Egypt, October 15-17, 1995. Objective was to offer overview of economic, financial and institutional issues in telecom regulatory affairs and their application in Egypt.

Expert advice and assistance in connection with Discronics v. Sony. (December 1995)

Before the Connecticut Department of Public Utility Control --

Expert advice and analysis to the DPUC staff regarding SNET's Application to offer unbundled loops, ports, and associated Interconnection Arrangements in Docket No. 95-06-17. (December 1995)

His Majesty's Government of Nepal --

Expert advise and assistance to the Ministry of Information and Communication of Nepal in its' effort to develop telecommunication Regulatory and Analytical capabilities. (1995-1997)

Before the U.S. District Court, Central District of California --

Expert advise and analysis of antitrust issues in Bournes, Inc. v. Raychem Corp., Case No. ED CV-95 165 RT (Mcx). (1996)

Before the Connecticut Department of Public Utility Control --

Expert advise and analysis to the DPUC staff regarding SNET's proposal for Alternative Regulation in Docket No. 95-03-01. (January 1996)

Before the North Carolina Utilities Commission --

Expert advice and assistance to the North Carolina Attorney General regarding price cap regulation in N.C. (February 1996)

Before the Montana Public Service Commission --

Expert advice and assistance to the Montana Consumer Counsel in Docket No. D96.2.16 regarding Commission investigation of local exchange service and competition. (May 1996)

Expert advice and assistance in connection with Stroh/Heileman acquisition (May 1996)

Before the Federal Communications Commission --

Expert advice and assistance to Municipal utilities in CC Docket No. 96-98 regarding implementation of local competition provisions in the Telecommunication Act of 1996. (June 1996)

Before the Connecticut Department of Public Utility Control --

Expert advice and analysis to the DPUC staff regarding SNET's Application to offer Interconnection Service in Docket No. 95-11-08. (June 1996)

Before the D.C. Public Service Commission --

Expert advice and assistance to the Office of People's Counsel in F.C. N 954 regarding implementation of the requirements of the Telecommunications Act of 1996. (June 1996)

Before the U.S. District Court for Colorado --

Expert advice and analysis of economic damages in Civil Action No. 94-WY-728-AJ, Coors Brewing Company vs. Miller Brewing Company, et al., June 1996

Before the U.S. District Court, Eastern District of Pennsylvania --

Expert advice and analysis of in Computer Aid, Inc. v. Hewlett-Packard, et al., No. 96 CV 4150 (E.D. Pa.) (June 1996)

Before the U.S. District Court, Eastern District of Pennsylvania --

Expert advice and analysis of antitrust issues in Checkpoint Systems, Inc. v. Polygram Group Distribution, Inc. et al., Civil Action No. 96-CV-4950 et al. (July 1996)

The Town and Village of Canton and The Town and Village of Potsdam, N.Y. --

Expert advice and analysis on the feasibility for the establishment of a municipal electric system. (August 1996)

Before the Montana Public Service Commission --

Expert witness in Docket No. D95.10.146/D 95.10.147, testimony concerning USWC rate proposal for EAS and Alternative rate design. (August 1996)

Expert advice and analysis of the competitive effects of the proposed Bell Atlantic/NYNEX acquisition on behalf of the Working Group States. (September 1996)

Before the Montana Public Service Commission --

Expert witness in Docket No. D96.8.131, testimony concerning USWC request for single issue treatment for expense increase due to FCC prescribed depreciation projection levels and salvage values. (October 1996)

Before the Montana Public Service Commission --

Expert witness in Docket No. D96.11.200, testimony regarding AT&T petition for arbitration to determine procedures and pricing to interconnect with USWC network and purchase unbundled and resale services. (January 1997)

Before the South Carolina Public Service Commission --

Expert witness in Docket No. 96-282-C, testimony regarding GTE's proposed changes in depreciation rates. (January 1997)

Before the U.S. District Court, Southern District of Ohio, Eastern Division --

Expert advice and analysis of issues in Arthur Fallick vs. Nationwide Mutual Insurance Company, No. C-2-95-1273. (January 1997)

Before the Maryland Public Service Commission --

Expert advice and analysis of issues in regard to Bell Atlantic-Maryland's filing requesting Commission certification of Company's compliance with Section 271(c) of the Telecommunications Act of 1996. (April 1997)

Before the South Carolina Public Service Commission --

Expert witness in Docket 97-101-C, testimony regarding BellSouth's filing requesting Commission certification of Company's compliance with Section 271(c) of the Telecommunications Act of 1996. (June 1997)

Before the Montana Public Service Commission --

Expert witness in Docket D96.12.220, testimony concerning US West Communications' local exchange rate restructuring proposal. (October 1997)

Before the South Carolina Public Service Commission --

Expert witness in Docket 97-239-C, testimony regarding fund methods proposed by LECs for the development of an universal service fund. (November 1997)

Before the South Carolina Public Service Commission --

Expert witness in Docket 97-374-C, testimony regarding BellSouth's proposal for pricing for competitors to interconnect with its network. (November 1997)

Before the Oklahoma Corporation Commission --

Expert witness in Cause No. 970000213, testimony on behalf of Oklahoma Attorney General concerning Southwestern Bell's proposal to the Commission for pricing for competition to interconnect with its network and electronic interfaces for customer care. (September 1997)

Before the District of Columbia Public Service Commission --

Report to Office of People's Counsel of the District of Columbia, Regulatory Requirements for Bell Operating Company Entry into InterLATA Services In Compliance With Section 271 of the Telecommunications Act of 1996. (October 1997)

Before the Maryland Public Service Commission --

Expert Witness in Case No. 8722 on behalf of the Maryland People's Counsel, testimony concerning local calling area boundaries. (April 1998)

Before the Montana Public Service Commission --

Expert witness in Docket D97.5.87 on behalf of Montana Consumer Counsel, testimony concerning US West Communication's compliance with Section 271 (c) of the Telecommunications Act of 1996. (June 1998)

Before the California Public Utilities Commission --

Report to California Public Utilities Commission on the Impact of the Merger of WorldCom and MCI. (July 1998)

Before the District of Columbia Public Service Commission --

Report to District of Columbia Office of People's Counsel, Preliminary Report on the Recurring Expense Savings Resulting from the Merger of Bell Atlantic Corporation and Nynex. (February 1999)

Before the Connecticut Department of Public Utility Control --

Expert advise and analysis concerning Southern New England Telephone Company's Common Costs Study. (March 1999)

Before the Oklahoma Corporation Commission --

Report to Oklahoma Corporation Commission in Cause No. PUD 980000311, The Analysis of GTE-SW's Depreciation Rates and Implementation of RM-90, (April 1999)

Before the Pennsylvania Public Utility Commission --

Report to Pennsylvania Office of Attorney General, The Impact of the Merger of Bell Atlantic and GTE. (April 1999)

Before the Montana Public Service Commission --

Expert witness in Docket No. D98.9.190 on behalf of Montana Consumer Counsel, testimony concerning Western Wireless Corporation's application for designation as an eligible telecommunications carrier. (June 1999)

Before the Montana Public Service Commission --

Expert witness in Docket No. D99.4.111 on behalf of the Montana Consumer Counsel, testimony concerning Ronan Telephone Company's request for Exemption under Section 25(f)(2) of the Telecommunications Act of 1996. (July 1999)

Before the Oklahoma Corporation Commission --

Expert witness in Cause No. PUD 980000311, on behalf of the Oklahoma Corporation Commission, testimony concerning GTE Southwest's compliance with RM-90 Order. (September 1999)

Before the Connecticut Department of Public Utility Control --

Expert advice and analysis in Docket No. 95-06-17RE02 on behalf of Connecticut Department of Public Utility Control concerning Southern New England Telephone Company's minimum wholesale discount rate. (September 1999)

Before the Montana Public Service Commission --

Expert witness in Docket No. D99.7.168 on behalf of Montana Consumer Counsel, testimony concerning US West Communications' Application for approval of a decrease in rates as a result of HB 128 Tax Reductions. (September 1999)

Before the Connecticut Department of Public Utility Control --

Expert Advice and Analysis in Docket No. 99-03-13 on behalf of Connecticut Department of Public Utility Control concerning Southern New England Telephone Company's proposed tariff for unbundled network element rebundled service. (December 1999)

Before the Montana Public Service Commission --

Expert witness in Docket No. 99.8.205 on behalf of Montana Consumer Counsel, testimony concerning US West's request to detariff intraLATA long distance and operator service. (December 1999)

Before the Connecticut Department of Public Utility Control --

Expert Advice and analysis in Docket No. 99-08-05 on behalf of Connecticut Department of Public Utility Control, concerning Southern New England Telephone Company's proposed tariff for collocation. (December 1999)

EXHIBIT 2

BellSouth Telecommunications, Inc.
SC Docket No. 1999-469-C
Consumer Advocate's 1st Interrogatories
Served: February 7, 2000
Filed: February 22, 2000
Item No. 1-1
Page 1 of 1

REQUEST: Please provide the proposed construction of an "inflation-based index."
Include the actual definition and proposed formula.

RESPONSE: It is premature to establish the inflation-based index in this proceeding at this time. Although the rate cap in the statute for flat-rated residential and single-line business customers is for a period of two years, the agreement between BellSouth and the Consumer Advocate extends the cap period to a minimum of 60 months from January 1, 2000. BellSouth believes the inflation-based index should be established prior to the expiration of the 60-month cap period; however, because the telecommunications landscape is constantly evolving, an index established five years before it would be needed probably would be outdated and inappropriate when actually applied.

BellSouth Telecommunications, Inc.
SC Docket No. 1999-469-C
Consumer Advocate's 1st Interrogatories
Served: February 7, 2000
Filed: February 22, 2000
Item No. 1-2
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REQUEST: Please define the term "aggregate revenues" as used in Section 7 of the Proposed Guidelines, including what services are included, or whether all services are included in the term.

RESPONSE: Aggregate revenues, as used in Section 7 of the Proposed Guidelines, are total annual revenues for services covered under S.C. Code Section 58-9-576 with the exception of flat-rated residential and single-line business.

BellSouth Telecommunications, Inc.
SC Docket No. 1999-469-C
Consumer Advocate's 1st Interrogatories
Served: February 7, 2000
Filed: February 22, 2000
Item No. 1-3
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REQUEST: Please explain how a complainant can file a complaint under Article IV, Section 5(I)(a.) of the Proposed Guidelines, when in order to establish a violation for discrimination, the complaining party must know BellSouth's underlying rational for the discrimination. Are complainants expected to be clairvoyant?

RESPONSE: When BellSouth files a change to an existing tariff or files a tariff for a new service, such tariff contains the terms and conditions under which the particular service or price is offered. The service or price will be available to any customer who meets the stated terms and conditions. Nevertheless, someone might wish to file a complaint alleging that rates charged for a specific service are somehow discriminatory. However, one would expect that before a complaint was filed, that the complainant would have some actual basis for asserting that a specific rate unreasonably discriminated between similarly situated customers. All the guidelines do is require the complainant to state the basis for the claim with as much specificity as possible including that complainant's basis for concluding discrimination has occurred between customers that are similarly situated and that there is no reasonable basis for the discrimination.

BellSouth Telecommunications, Inc.
SC Docket No. 1999-469-C
Consumer Advocate's 1st Interrogatories
Served: February 7, 2000
Filed: February 22, 2000
Item No. 1-4
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REQUEST: Under the Proposed Guidelines, how can a complainant establish that BellSouth has market power? What are the relevant guidelines of defining market power? For example, are the measures based on concentration ratios such as HHIs, BellSouth's market share over 30%, or some other way?

RESPONSE: "Market power" is a term that is used commonly in antitrust case law and literature. For example, the U. S. Department of Justice and the Federal Trade Commission Horizontal Merger Guidelines (the "Merger Guidelines"),¹ state that "[m]arket power to a seller is the ability profitably to maintain prices above competitive levels for a significant period of time." (Merger Guidelines, Section 0.1, Purpose and Underlying Policy Assumptions of the Guidelines.)

In all cases, regardless of a firm's market share or the market's concentration, when entry into a market is easy, or when other factors prevent a firm from profitably charging a price above the competitive level for a significant period of time, a firm in the market will not have market power.

If a complainant wants to establish that BellSouth has market power in a particular market, the complainant should demonstrate that BellSouth has the "ability profitably to maintain prices [in that market] above competitive levels for a significant period of time." The complaining party would therefore have the burden of demonstrating what a competitive price would be for a particular product in a specific market and then offer proof that BellSouth had maintained prices above that level for a significant period of time, thus evidencing market power. The complainant should also demonstrate the absence of easy entry or other factors that would negate the inference of market power. On the other hand, BellSouth would have the opportunity to offer evidence that it does not have market power by showing, for example, that ease of entry or other factors remove the ability to profitably maintain a supra-competitive price for a significant period of time.

¹ Issued April 2, 1992 and revised April 8, 1997.

BellSouth Telecommunications, Inc.
SC Docket No. 1999-469-C
Consumer Advocate's 1st Interrogatories
Served: February 7, 2000
Filed: February 22, 2000
Item No. 1-5
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REQUEST: Will BellSouth file with the Commission, on an annual basis, its market share in each service market? If not, how will the Commission know when BellSouth has dominant market position in a service market?

RESPONSE: No. BellSouth does not plan to file market share data in South Carolina. The requirements of Section 58-9-576(B)(5) of the statute make such a filing unnecessary.